

ABSTRACTACOUSTIC LINER FOR GAS TURBINE ENGINE

5 A passive acoustic liner system (50) for attenuating a  
sound field comprising, in acoustic series, a mode-  
scattering segment (48) and a sound-absorbing segment (40),  
wherein the mode scattering segment (48) provides a  
reactance between  $-12$  and  $-2 \rho c$  and the sound absorbing  
10 segment (40) provides a reactance between  $-1$  and  $0 \rho c$   
thereby providing a reactance discontinuity such that mode-  
scattering of the sound field enables the sound-absorbing  
segment (48) to further absorb the scattered sound.

15 (Figure 1)